

319490

ABSTRACT OF THE DISCLOSURE  
A precipitated silica with the following physicochemical properties:

BET surface area 35 to 350 m<sup>2</sup>/g  
BET/CTAB surface area ratio 0.8 to 1.1  
5 Pore volume, PV 1.6 to 3.4 ml/g  
Silanol group density (V<sub>2</sub> = 6 to 20 ml  
NaOH consumption)  
Average aggregate size 250 to 1500 nm  
10 CTAB surface area 30 to 350 m<sup>2</sup>/g  
DBP value 150 to 300 ml/100 g  
V<sub>2</sub>/V<sub>1</sub> by Hg porosimetry 0.19 to 0.46  
DBP/CTAB 1.2 to 2.4.

is produced by reacting alkali silicate with mineral acids  
at temperatures of 60 to 95°C while maintaining a pH of 7.5  
15 to 10.5 and continuously stirring, continuing the reaction  
to a solids concentration in the precipitation suspension of  
90 to 120 g/l, adjusting the pH value to a value of less  
than or equal to 5, filtering out, washing, drying and op-  
tionally grinding or granulating the precipitated silica.

20 The precipitated silica is used as a filler in vulcanizable  
rubber compounds and vulcanizates.

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